

**WHAT IS CLAIMED:**

1. An color changing ink eradicating fluid comprising:  
a volatile base;  
a pH sensitive dye; and  
5 an eradicating agent,  
wherein the dye changes color as the volatile base evaporates.
2. The ink eradicating fluid of claim 1 further comprising a stabilizer  
selected from the group consisting of sodium perborate ( $\text{BNaO}_3$ ) and  
ethylenediaminetetraacetic acid (EDTA) and mixtures thereof.
- 10 3. The ink eradicating fluid of claim 1 further comprising a solvent that  
comprises one or both of water or an alcohol.
4. The ink eradicating fluid of claim 1 further comprising a resin that  
comprises polyethyleneimine.
5. The ink eradicating fluid of claim 1 wherein the pH sensitive dye of  
15 the eradicating fluid is selected from the group consisting of o-cresolphthalein,  
thymolohthalein, phenolphthalein and mixtures thereof.
6. The ink eradicating fluid of claim 1 wherein the volatile base is  
selected from the group consisting of 2-amino-2-methyl-1-propanol (AMP) and  
monoethylamine (MEA).
- 20 7. The ink eradicating fluid of claim 1 wherein the volatile base is further  
characterized as a volatile caustic.
8. The ink eradicating fluid of claim 1 wherein the fluid has a pH of  
greater than 10.
9. An ink eradicating fluid comprising:  
25 an eradicating agent and at least one of a base and a stabilizer selected  
from the group consisting of sodium perborate ( $\text{BNaO}_3$ ) and  
ethylenediaminetetraacetic acid (EDTA) and mixtures thereof.

10. The ink eradicating fluid of claim 9 further comprising a solvent that comprises one or both of water or an alcohol.

11. The ink eradicating fluid of claim 9 further comprising a resin that comprises polyethyleneimine.

5 12. The ink eradicating fluid of claim 9 wherein the fluid has a pH below 10.

13. The ink eradicating fluid of claim 9 wherein the fluid has a pH ranging from about 7 to less than 10.

10 14. A combination eradicable and re-write ink comprising:  
one or both of phosphorus pentoxide ( $P_4O_{10}$ ) and phosphoric acid ( $H_3PO_4$ )  
and  
an eradicable dye.

15 15. The combination eradicable and re-write ink of claim 14 wherein the eradicable dye is selected from the group consisting of acid blue 93, basic green 4, acid violet 19, basic red 14 and mixtures thereof.

16. The combination eradicable and re-write ink of claim 14 wherein the ink has a pH of less than 3.

17. The combination eradicable and re-write ink of claim 14 wherein the ink has a pH of less than 2.

20 18. The combination eradicable and re-write ink of claim 14 wherein the ink has a viscosity ranging from about 1 to about 3 cp and has a pH ranging from about 2 to about 3.

25 19. The combination eradicable and re-write ink of claim 14 wherein the ink is a ball pen ink having a viscosity ranging from about 1 to about 3 kcp and has a pH ranging from about 2 to about 3

20. A writing instrument comprising:

a first reservoir containing an ink eradicator, the first reservoir being in fluid communication with a first applicator tip, the ink eradicator comprising a volatile base, a pH sensitive dye and an eradicating agent;

5 a second reservoir containing a combination eradicable and re-write ink, the second reservoir being in fluid communication with a second applicator tip, the combination eradicable and re-write ink comprising one of phosphorus pentoxide ( $P_4O_{10}$ ) or phosphoric acid ( $H_3PO_4$ ) or mixtures thereof, and an eradicable dye.

21. The writing instrument of claim 20 wherein the ink eradicating fluid  
10 further comprises a stabilizer selected from the group consisting of sodium perborate ( $BNaO_3$ ) and ethylenediaminetetraacetic acid (EDTA) and mixtures thereof.

22. The writing instrument of claim 20 wherein the ink eradicating fluid further comprises a solvent that comprises one or both of water or an alcohol.

23. The writing instrument of claim 20 wherein the ink eradicating fluid  
15 further comprises a resin that comprises polyethyleneimine.

24. The writing instrument of claim 20 wherein the pH sensitive dye of the eradicating fluid is selected from the group consisting of o-cresolphthalein, thymolohthalein, phenolphthalein and mixtures thereof.

25. The writing instrument of claim 20 wherein the volatile base is  
20 selected from the group consisting of 2-amino-2-methyl-1-propanol (AMP) and monoethylamine (MEA).

26. The writing instrument of claim 20 wherein the volatile base is further characterized as a volatile caustic.

27. The writing instrument of claim 20 wherein the ink eradicating fluid  
25 has a pH of greater than 10.

28. The writing instrument of claim 20 wherein the eradicable dye of the ink is selected from the group consisting of acid blue 93, basic green 4, acid violet 19, basic red 14 and mixtures thereof.

29. The writing instrument of claim 20 wherein the ink has a pH of less than 3.

30. The writing instrument of claim 20 wherein the ink has a pH of less than 2.

5 31. The writing instrument of claim 20 wherein the ink has a viscosity ranging from about 1 to about 3 cp and has a pH ranging from about 2 to about 3 and the second applicator tip is selected from the group consisting of a porous tip, a plastic extruded tip and a rolling ball tip.

32. The writing instrument of claim 20 wherein the ink is a ball pen ink  
10 having a viscosity ranging from about 1 to about 3 kcp and having a pH ranging from about 2 to about 3 and/or the second applicator tip is a ball point pen tip.

33. A writing instrument comprising:  
a first reservoir containing an ink eradicator, the first reservoir being in fluid communication with a first applicator tip, the ink eradicator comprising an eradicating  
15 agent, and at least one of a base and a stabilizer selected from the group consisting of sodium perborate ( $\text{BNaO}_3$ ) and ethylenediaminetetraacetic acid (EDTA) and mixtures thereof;

a second reservoir containing a combination eradicable and re-write ink, the second reservoir being in fluid communication with a second applicator tip, the  
20 combination eradicable and re-write ink comprising one of phosphorus pentoxide ( $\text{P}_4\text{O}_{10}$ ) or phosphoric acid ( $\text{H}_3\text{PO}_4$ ) or mixtures thereof, and an eradicable dye.

34. The writing instrument of claim 33 the ink eradicating fluid further comprises a solvent that comprises one or both of water or an alcohol.

35. The writing instrument of claim 33 wherein the ink eradicating fluid  
25 further comprises a resin that comprises polyethyleneimine.

36. The writing instrument of claim 33 wherein the ink eradicating fluid has a pH of less than 10.

37. The writing instrument of claim 33 wherein the eradicable dye of the ink is selected from the group consisting of acid blue 93, basic green 4, acid violet 19, basic red 14 and mixtures thereof.

5 38. The writing instrument of claim 33 wherein the ink has a pH of less than 3.

39. The writing instrument of claim 33 wherein the ink has a viscosity ranging from about 1 to about 3 cp and has a pH ranging from about 2 to about 3 and the second applicator tip is selected from the group consisting of a porous tip, a plastic extruded tip and a rolling ball tip.

10 40. The writing instrument of claim 33 wherein the ink is a ball pen ink having a viscosity ranging from about 1 to about 3 kcp and having a pH ranging from about 2 to about 3 and the second applicator tip is a ball point pen tip.

41. A method of correcting a mistake in a hand-written document, the method comprising:

15 writing with the combination eradicable and re-write ink of claim 14;  
applying the eradicating fluid of claim 1 over the at least part of the writing in an amount sufficient eradicate said part of the writing;  
waiting for the pH sensitive dye of the eradicating fluid to disappear as the volatile base evaporates and the eradicating fluid dries; and  
20 correcting the writing by applying fresh combination eradicable and re-write ink of claim 14 over the dried eradicating fluid.